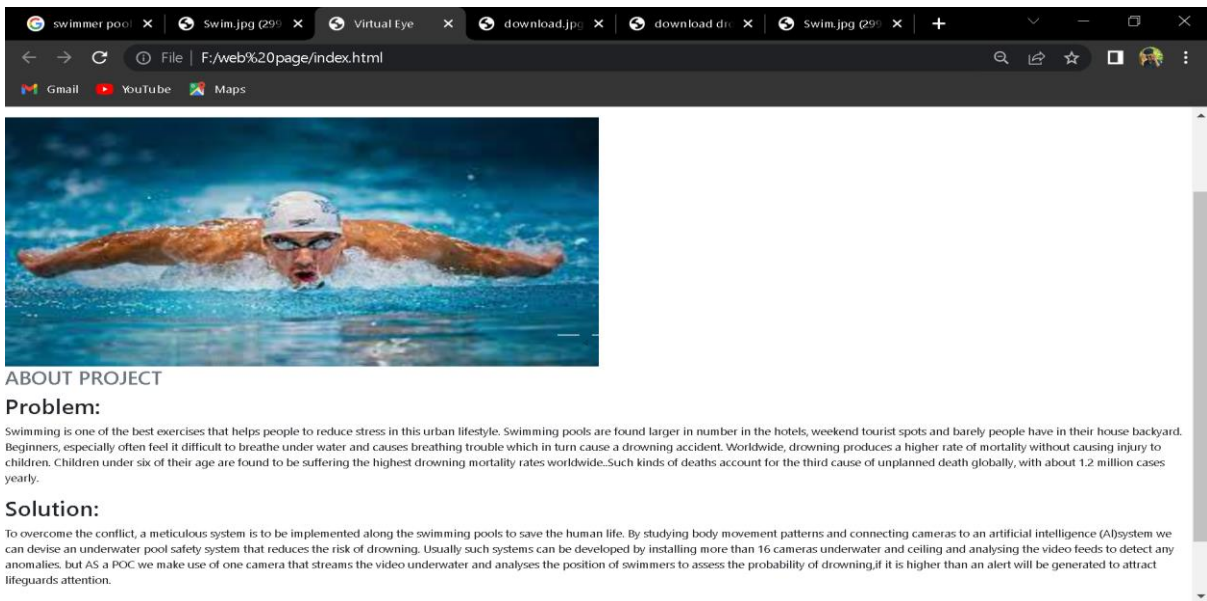


Project Development Phase Sprint-2 Test Case

Date	08 November 2022
Team ID	PNT2022TMID25362
Project Name	VirtualEye- Life Guard for Swimming Pools to Detect Active Drowning
Maximum Marks	8 Marks



The screenshot shows a web browser with multiple tabs. The active tab is titled 'Virtual Eye' and displays a webpage with a large image of a swimmer in a pool. Below the image, the text 'ABOUT PROJECT' is visible, followed by a 'Problem:' section and a 'Solution:' section. The 'Problem:' section discusses the dangers of swimming and the need for a safety system. The 'Solution:' section describes the implementation of an AI system for detecting drowning.

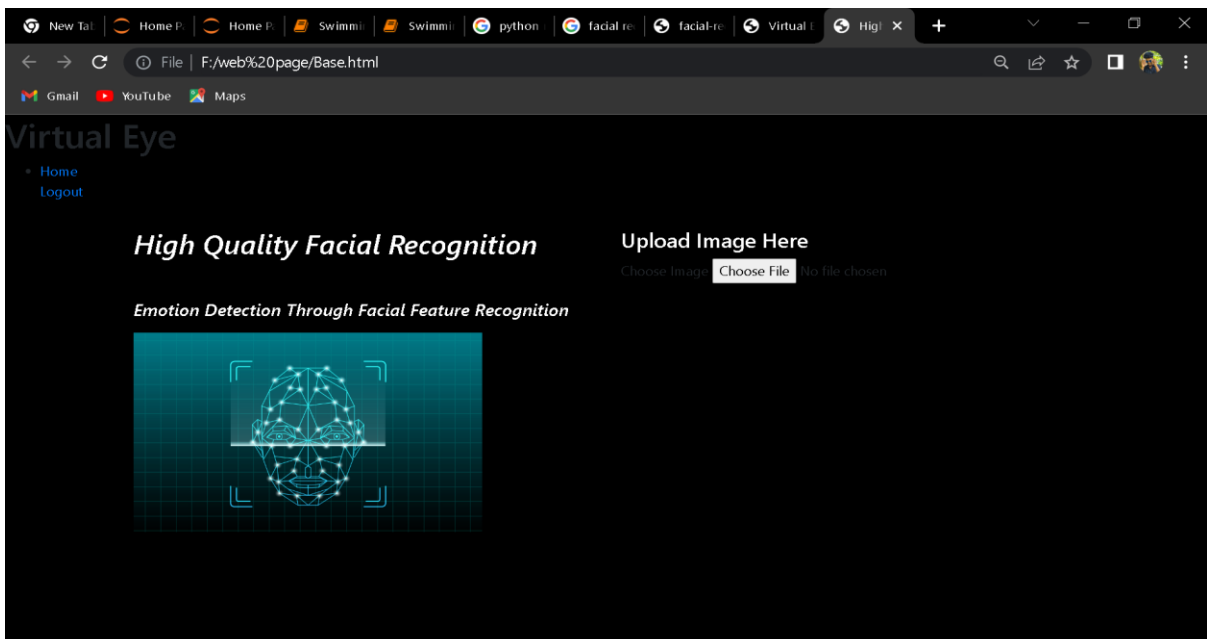
ABOUT PROJECT

Problem:

Swimming is one of the best exercises that helps people to reduce stress in this urban lifestyle. Swimming pools are found larger in number in the hotels, weekend tourist spots and barely people have in their house backyard. Beginners, especially often feel it difficult to breathe under water and causes breathing trouble which in turn cause a drowning accident. Worldwide, drowning produces a higher rate of mortality without causing injury to children. Children under six of their age are found to be suffering the highest drowning mortality rates worldwide. Such kinds of deaths account for the third cause of unplanned death globally, with about 1.2 million cases yearly.

Solution:

To overcome the conflict, a meticulous system is to be implemented along the swimming pools to save the human life. By studying body movement patterns and connecting cameras to an artificial intelligence (AI) system we can devise an underwater pool safety system that reduces the risk of drowning. Usually such systems can be developed by installing more than 16 cameras underwater and ceiling and analysing the video feeds to detect any anomalies. but AS a POC we make use of one camera that streams the video underwater and analyses the position of swimmers to assess the probability of drowning. If it is higher than an alert will be generated to attract lifeguards attention.



The screenshot shows the 'Virtual Eye' web application interface. It features a dark background with a navigation menu on the left containing 'Home' and 'Logout'. The main content area has the heading 'High Quality Facial Recognition' and 'Emotion Detection Through Facial Feature Recognition'. There is a section titled 'Upload Image Here' with a 'Choose File' button and a 'No file chosen' status. Below this, there is a graphic of a face with facial recognition points.

Virtual Eye

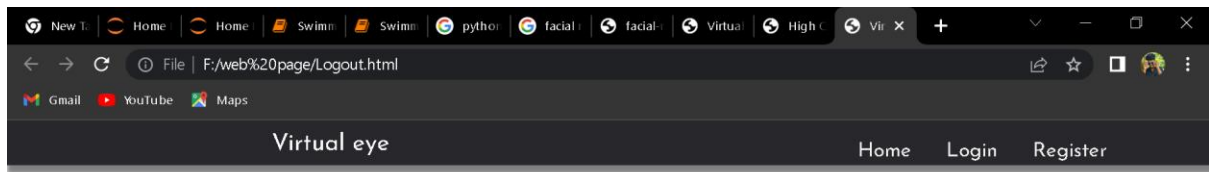
- Home
- Logout

High Quality Facial Recognition

Emotion Detection Through Facial Feature Recognition

Upload Image Here

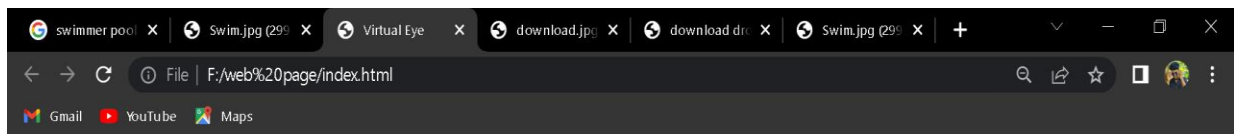
Choose Image: No file chosen



Successfully Logged Out!

[Login for more information](#)

Login



Virtual Eye

- [Home](#)
- [Login](#)
- [Register](#)
- [Demo](#)

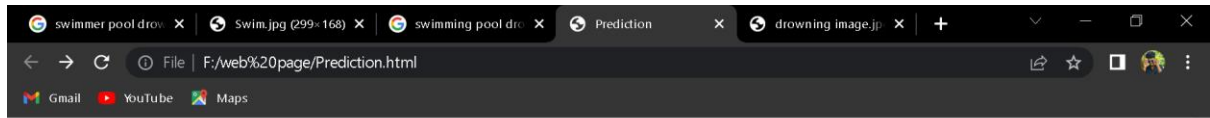


ABOUT PROJECT

Problem:

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Virtual Eye-Life Guard for Swimming Pools to Detect Active Drowning

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